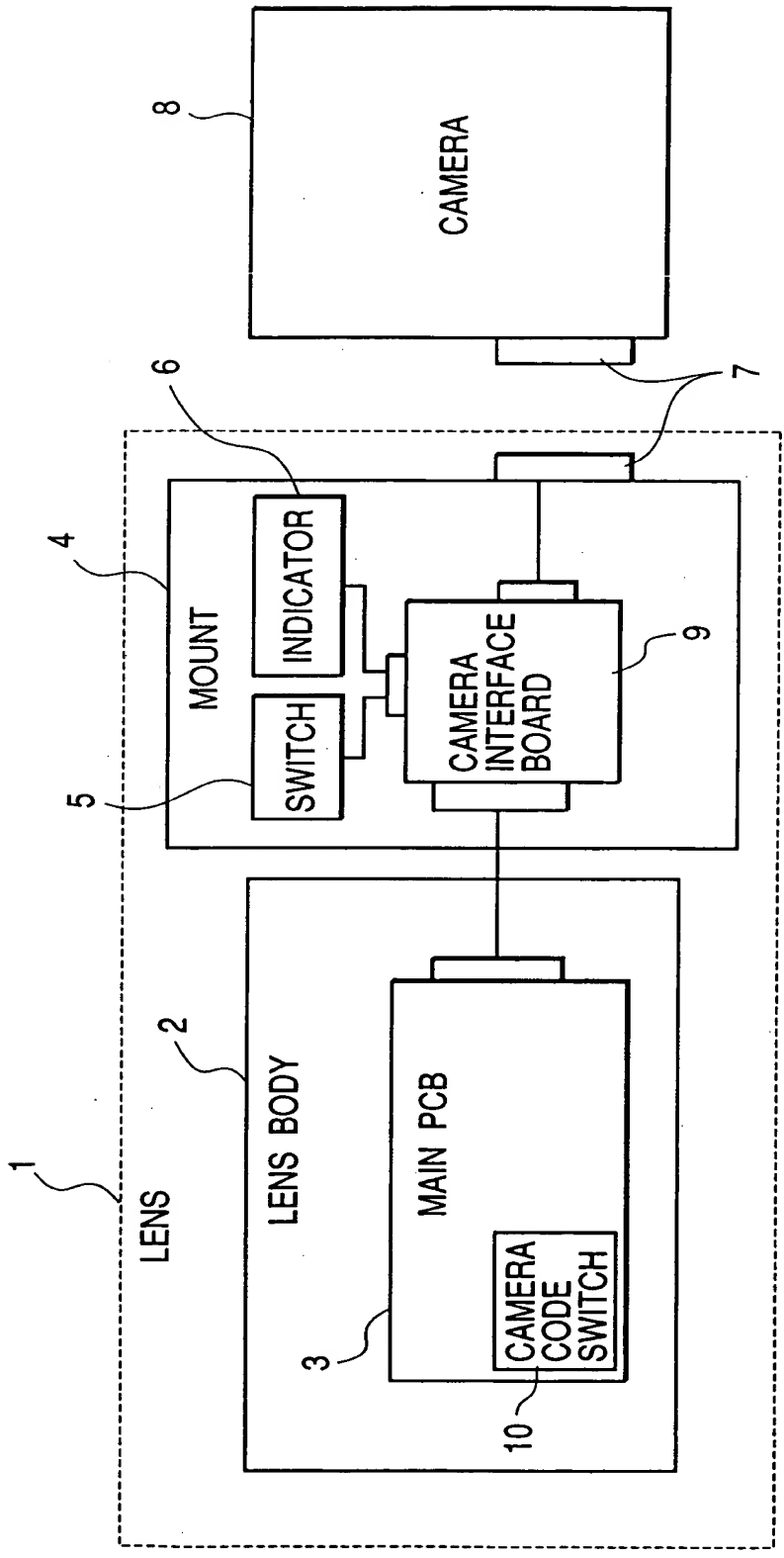


FIG. 1



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FIG. 2

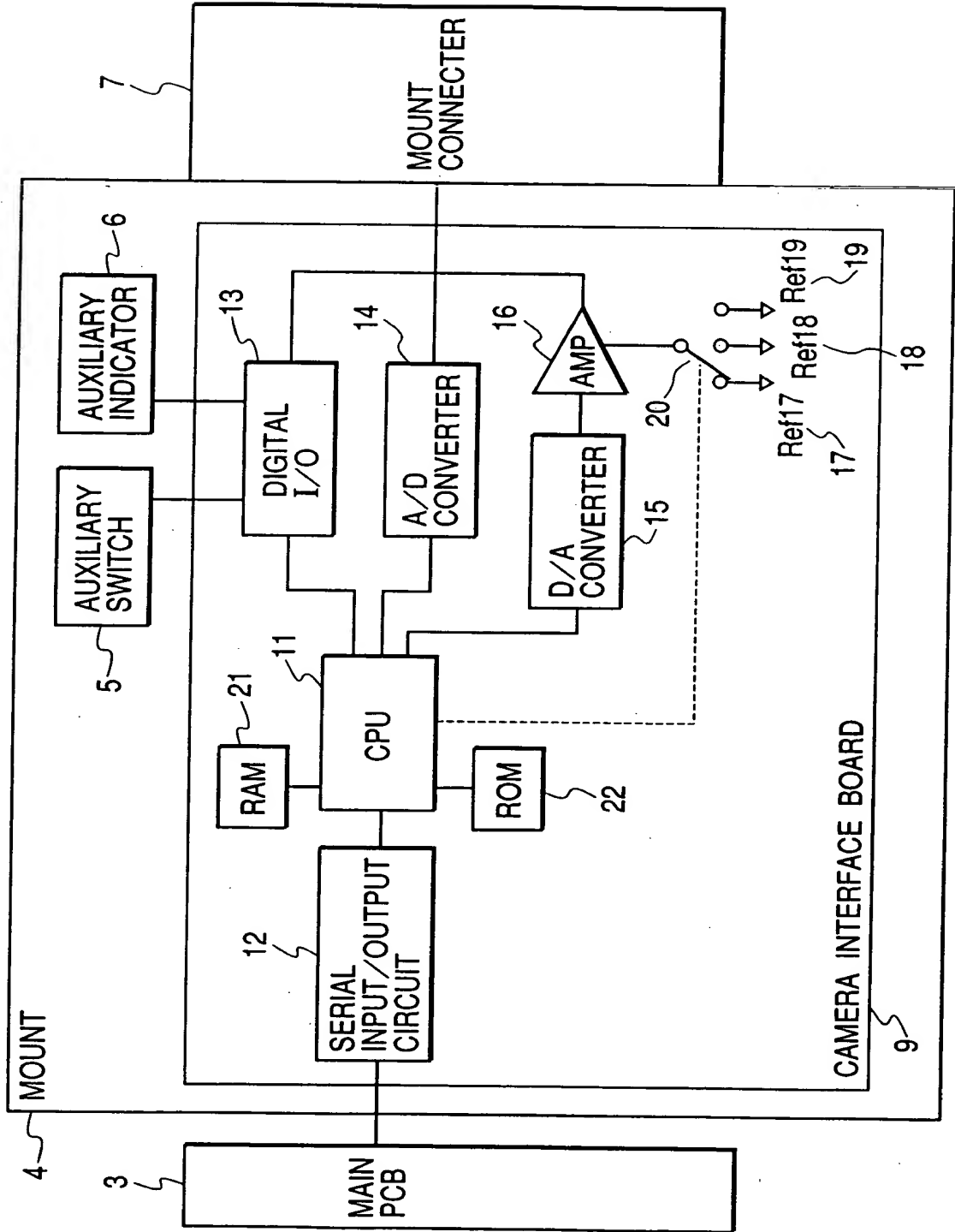
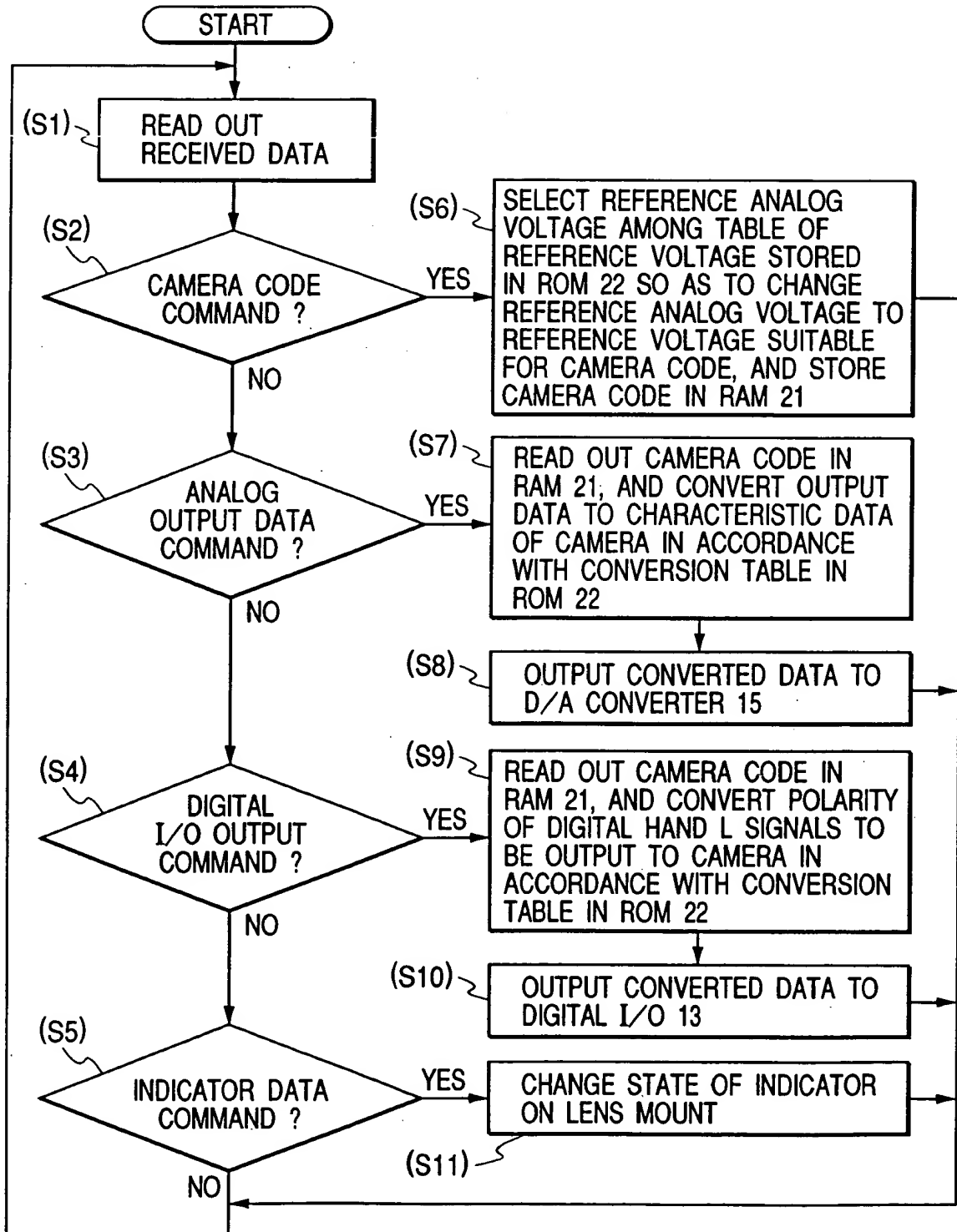


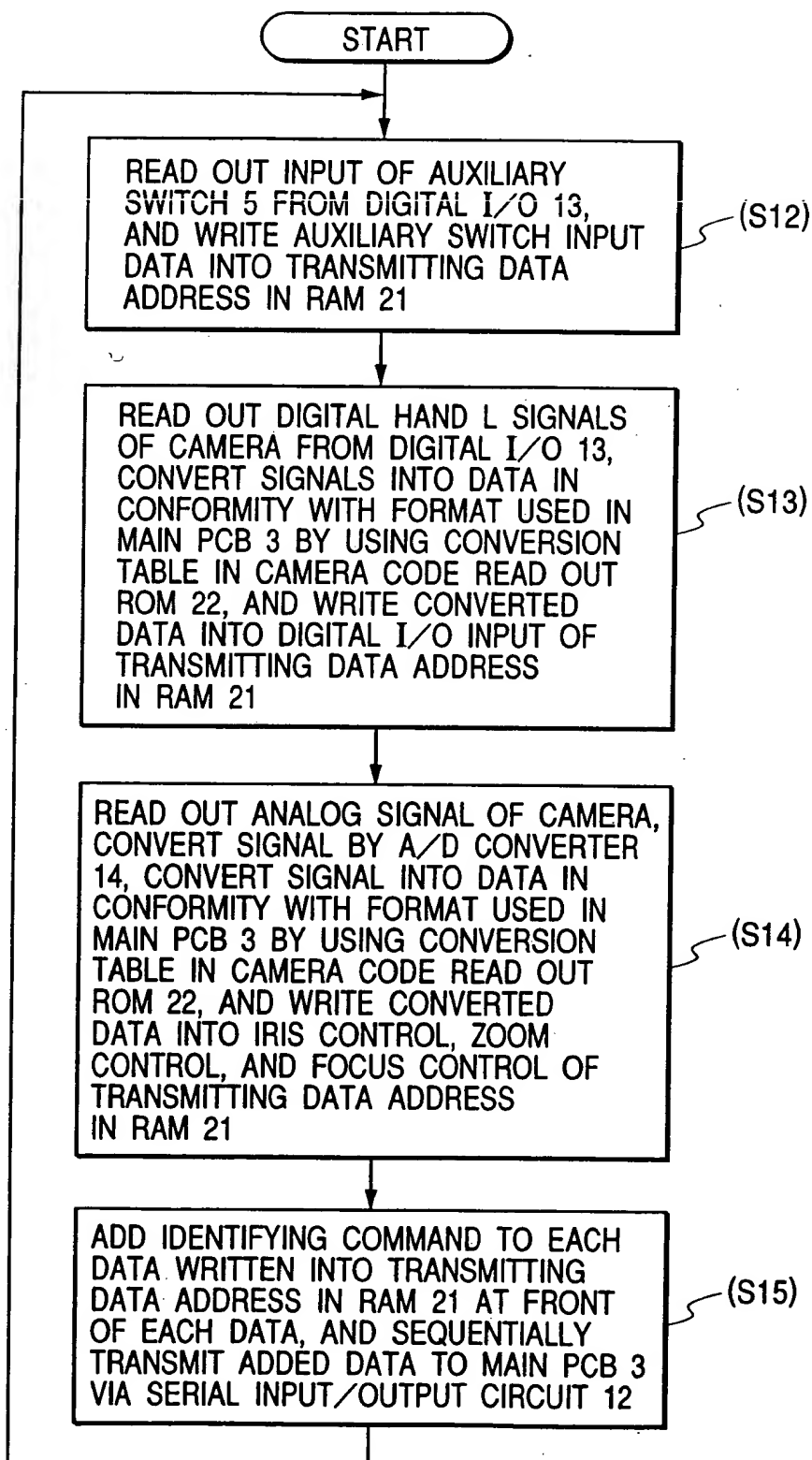
FIG. 3



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FIG. 4



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FIG. 5

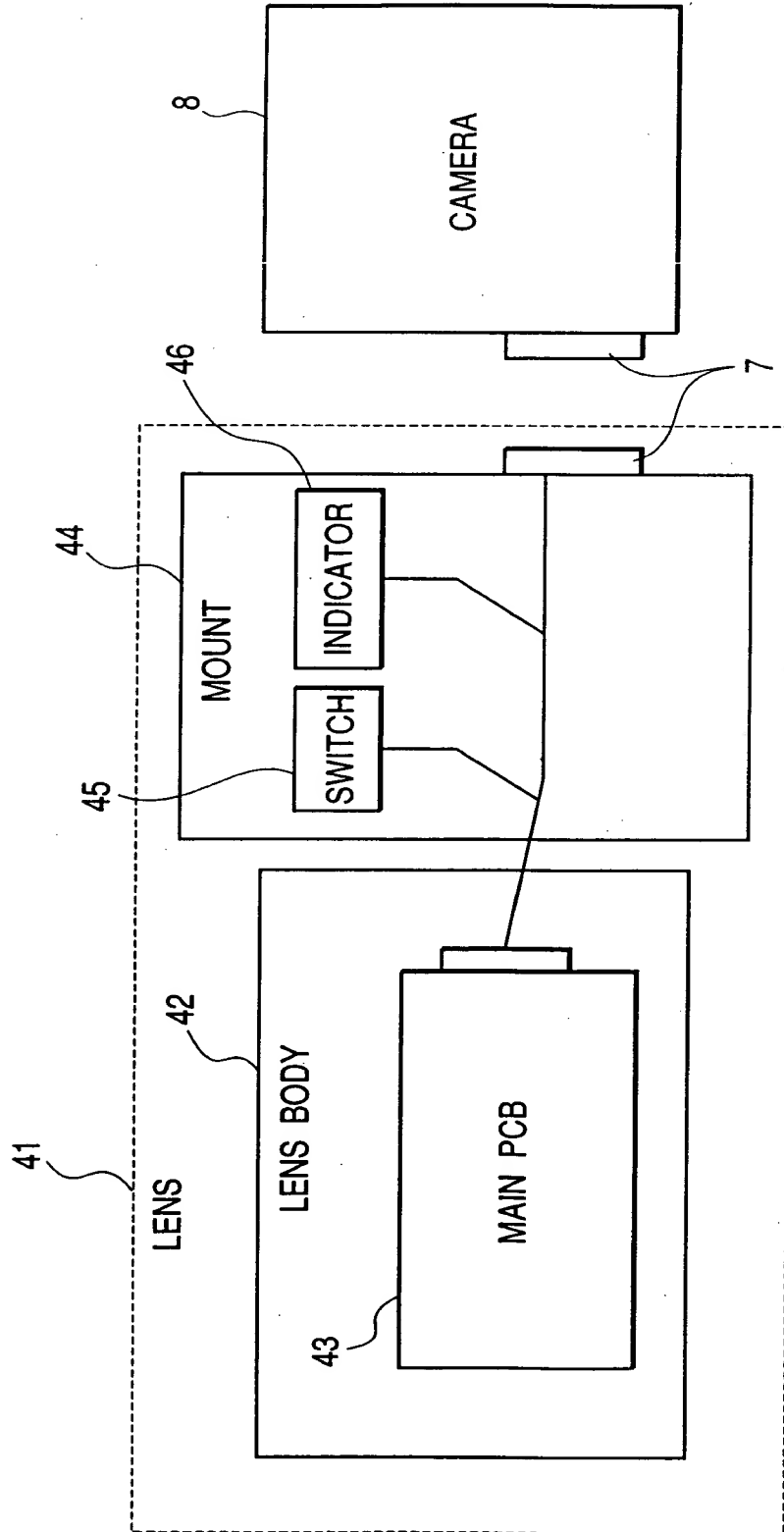


FIG. 7

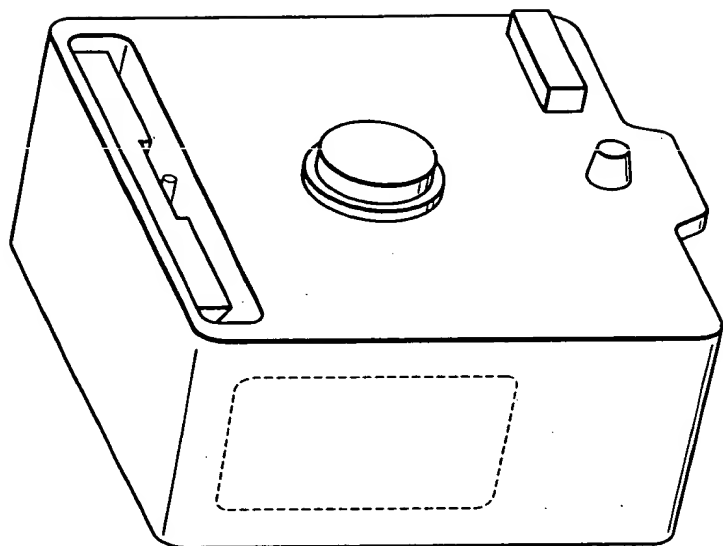
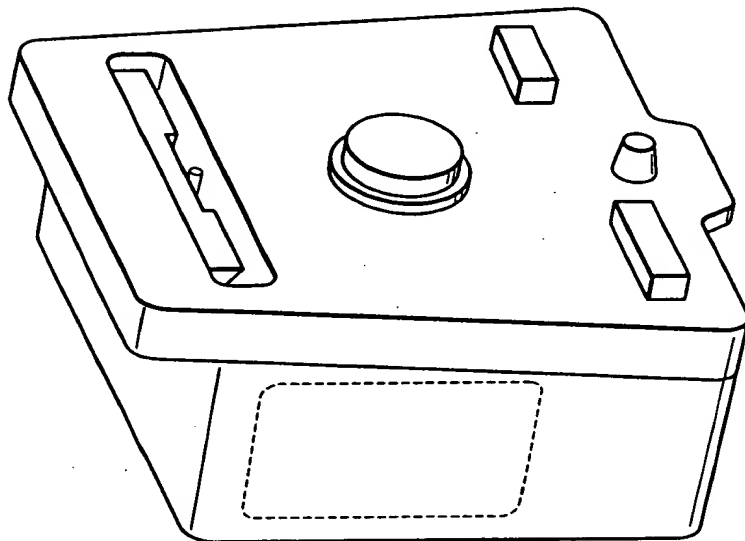


FIG. 6



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FIG. 8A

FIG. 8A-1

FIG. 8A-1 FIG. 8A-2

CAMERA MAKER	CAMERA CODE 8bit	ZOOM GAIN	ZOOM REFERENCE VOLTAGE	FOCUS GAIN	FOCUS REFERENCE VOLTAGE
A COMPANY	0	833 (DECIMAL NUMERAL)	Ref17	800 (DECIMAL NUMERAL)	Ref17
B COMPANY	1	666 (DECIMAL NUMERAL)	Ref18	700 (DECIMAL NUMERAL)	Ref18
C COMPANY	2	400 (DECIMAL NUMERAL)	Ref19	400 (DECIMAL NUMERAL)	Ref19
D COMPANY	3	700 (DECIMAL NUMERAL)	Ref19	700 (DECIMAL NUMERAL)	Ref19
E COMPANY	4	800 (DECIMAL NUMERAL)	Ref19	800 (DECIMAL NUMERAL)	Ref19
F COMPANY	5	900 (DECIMAL NUMERAL)	Ref18	900 (DECIMAL NUMERAL)	Ref18
G COMPANY	6	300 (DECIMAL NUMERAL)	Ref17	300 (DECIMAL NUMERAL)	Ref17
H COMPANY	7	500 (DECIMAL NUMERAL)	Ref17	500 (DECIMAL NUMERAL)	Ref17
I COMPANY	8	500 (DECIMAL NUMERAL)	Ref18	500 (DECIMAL NUMERAL)	Ref18
J COMPANY	9	800 (DECIMAL NUMERAL)	Ref19	800 (DECIMAL NUMERAL)	Ref19
K COMPANY	A	700 (DECIMAL NUMERAL)	Ref18	700 (DECIMAL NUMERAL)	Ref18
L COMPANY	B	900 (DECIMAL NUMERAL)	Ref19	900 (DECIMAL NUMERAL)	Ref19
M COMPANY	C	700 (DECIMAL NUMERAL)	Ref19	700 (DECIMAL NUMERAL)	Ref19
N COMPANY	D	700 (DECIMAL NUMERAL)	Ref18	700 (DECIMAL NUMERAL)	Ref18
O COMPANY	E	600 (DECIMAL NUMERAL)	Ref18	600 (DECIMAL NUMERAL)	Ref18

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FIG. 8A-2

IRIS GAIN 16bit	IRIS REFERENCE VOLTAGE	bit DATA CAMERA CONTROL 8bit	bit DATA CAMERA ANSWER 8bit
800 (DECIMAL NUMERAL)	Ref17	00100011B (BIT NUMERAL)	00100011B (BIT NUMERAL)
700 (DECIMAL NUMERAL)	Ref18	01011100B (BIT NUMERAL)	01011100B (BIT NUMERAL)
400 (DECIMAL NUMERAL)	Ref19	10000011B (BIT NUMERAL)	10000011B (BIT NUMERAL)
700 (DECIMAL NUMERAL)	Ref19	00001111B (BIT NUMERAL)	00001111B (BIT NUMERAL)
800 (DECIMAL NUMERAL)	Ref19	00111110B (BIT NUMERAL)	00111110B (BIT NUMERAL)
900 (DECIMAL NUMERAL)	Ref18	01101100B (BIT NUMERAL)	01101100B (BIT NUMERAL)
300 (DECIMAL NUMERAL)	Ref17	00101101B (BIT NUMERAL)	00101101B (BIT NUMERAL)
500 (DECIMAL NUMERAL)	Ref17	10101001B (BIT NUMERAL)	10101001B (BIT NUMERAL)
500 (DECIMAL NUMERAL)	Ref18	10101000B (BIT NUMERAL)	10101000B (BIT NUMERAL)
800 (DECIMAL NUMERAL)	Ref19	10011001B (BIT NUMERAL)	10011001B (BIT NUMERAL)
700 (DECIMAL NUMERAL)	Ref18	10011000B (BIT NUMERAL)	10011000B (BIT NUMERAL)
900 (DECIMAL NUMERAL)	Ref19	10011011B (BIT NUMERAL)	10011011B (BIT NUMERAL)
700 (DECIMAL NUMERAL)	Ref19	01001011B (BIT NUMERAL)	01001011B (BIT NUMERAL)
700 (DECIMAL NUMERAL)	Ref18	10110011B (BIT NUMERAL)	10110011B (BIT NUMERAL)
600 (DECIMAL NUMERAL)	Ref18	00000010B (BIT NUMERAL)	00000010B (BIT NUMERAL)

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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FIG. 8B

CAMERA MAKER	TALLY ON 8bit bit7	EXT 2XON 8bit bit6	IRISAUTO 8bit bit5	PPON 8bit bit4	HEATER ON 8bit bit3	16:9 ON 8bit bit2	ZOOM REMOTE 8bit bit1	FOCUS REMOTE 8bit bit0
A COMPANY	0	0	1	0	0	0	1	1
B COMPANY	0	1	0	1	1	1	0	0
C COMPANY	1	0	0	0	0	0	1	1
D COMPANY	0	0	0	0	1	1	1	1
E COMPANY	0	0	1	1	1	1	1	0
F COMPANY	0	1	1	0	1	1	0	0
G COMPANY	0	0	1	0	1	1	0	1
H COMPANY	1	0	1	0	1	0	0	1
I COMPANY	1	0	1	0	1	0	0	0
J COMPANY	1	0	0	1	1	0	0	1
K COMPANY	1	0	0	1	1	0	0	0
L COMPANY	1	0	0	1	1	0	1	1
M COMPANY	0	1	0	0	1	0	1	1
N COMPANY	1	0	1	1	0	0	1	1
O COMPANY	0	0	0	0	0	0	1	0

FIG. 8C

	bit7	bit6	bit5	bit4	bit3	bit2	bit1	bit0
	0	1	1	1	0	0	0	0

FIG. 8D

	bit7	bit6	bit5	bit4	bit3	bit2	bit1	bit0
A COMPANY	0	0	1	0	0	0	1	1
INPUT	0	1	1	1	0	0	0	0
EXOR	0	1	0	1	0	0	1	1

FIG. 8E

	bit7	bit6	bit5	bit4	bit3	bit2	bit1	bit0
B COMPANY	0	1	0	1	1	1	0	0
INPUT	0	1	1	1	0	0	0	0
EXOR	0	0	1	0	1	1	0	0

FIG. 9

COMMAND PORTION 1byte	DATA PORTION (DATA PORTION HAS CHANGEABLE AREA)
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FIG. 10A

FROM MAIN PCB 3 TO CAMERA INTERFACE BOARD 9
CAMERA CODE COMMAND
ANALOG DATA OUTPUT IRIS COMMAND
ANALOG DATA OUTPUT ZOOM COMMAND
ANALOG DATA OUTPUT FOCUS COMMAND
DIGITAL I/O OUTPUT COMMAND
DISPLAY DEVICE DATA COMMAND

FIG. 10B

FROM CAMERA INTERFACE BOARD 9 TO MAIN PCB 3
AUXILIARY SWITCH DIGITAL I/O DATA COMMAND
CAMERA INPUT DIGITAL I/O DATA COMMAND
CAMERA ANALOG IRIS DATA COMMAND
CAMERA ANALOG ZOOM DATA COMMAND
CAMERA ANALOG FOCUS DATA COMMAND

FIG. 11A

RECEIVING RAM 21 DATA ADDRESS
CAMERA CODE
IRIS FOLLOW
ZOOM FOLLOW
FOCUS FOLLOW
DIGITAL I/O OUTPUT
INDICATING DATA

FIG. 11B

TRANSMITTING RAM 21 DATA ADDRESS
IRIS CONTROL
ZOOM CONTROL
FOCUS CONTROL
DIGITAL I/O INPUT
MOUNT SWITCH INPUT

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FIG. 12

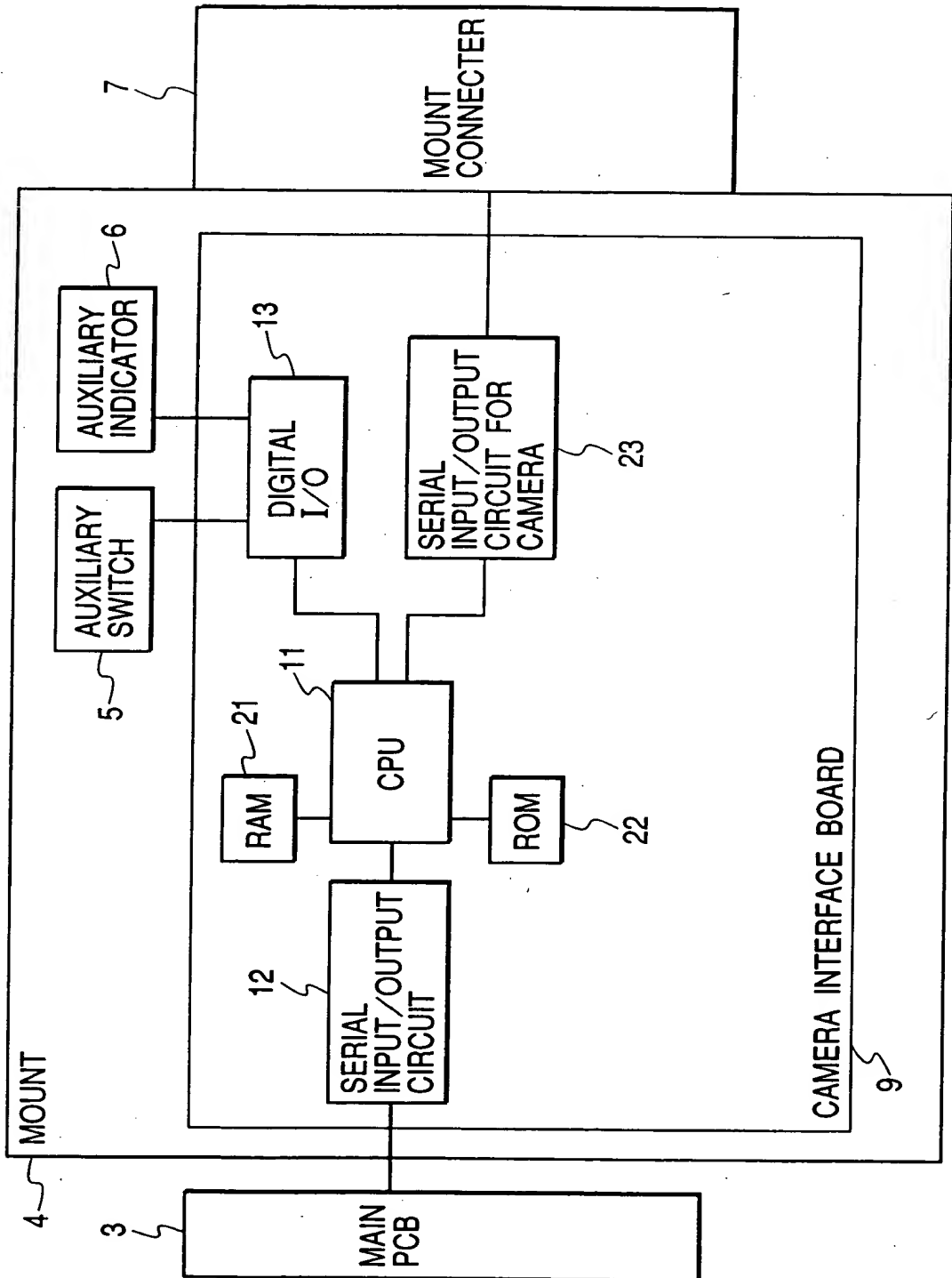
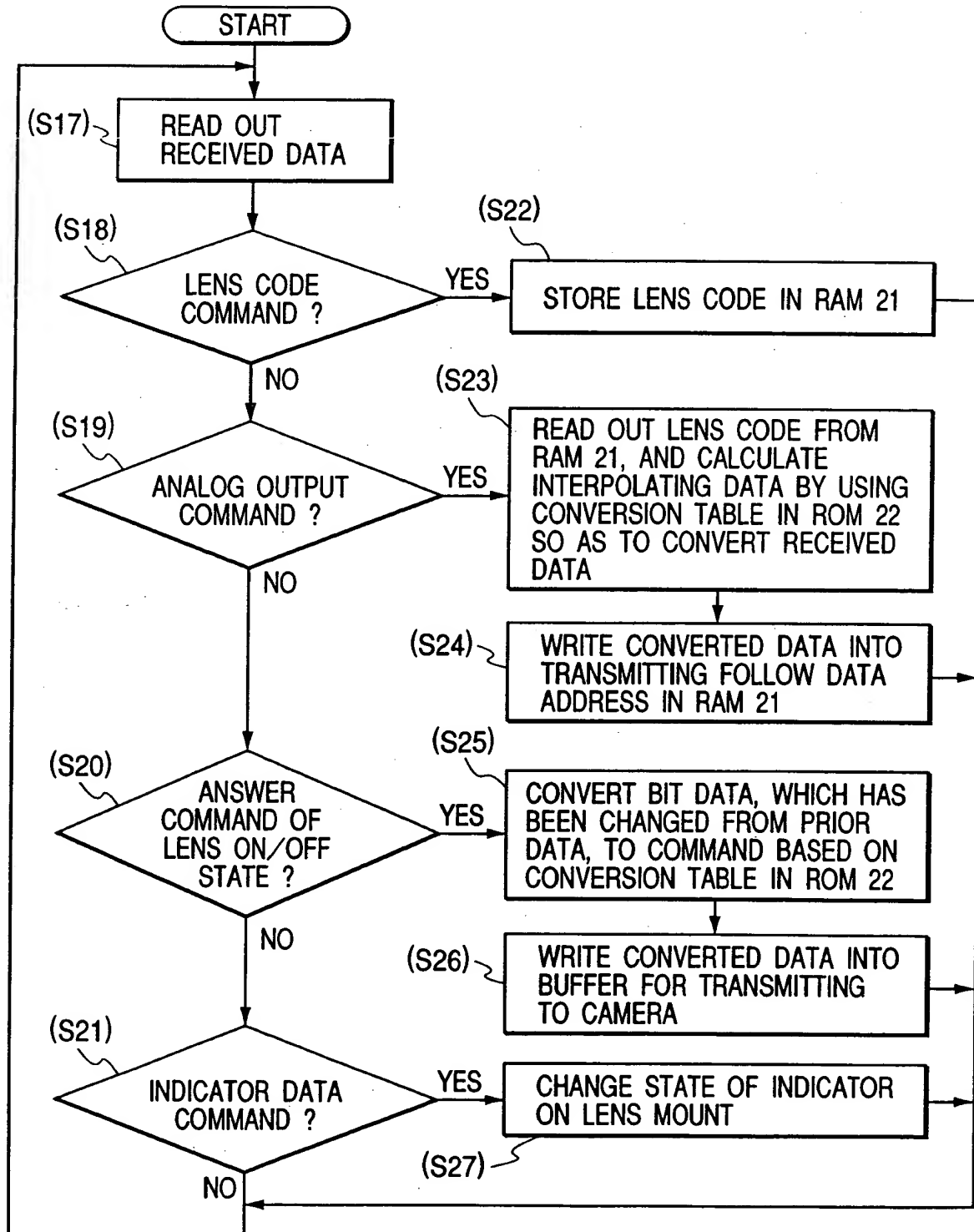


FIG. 13

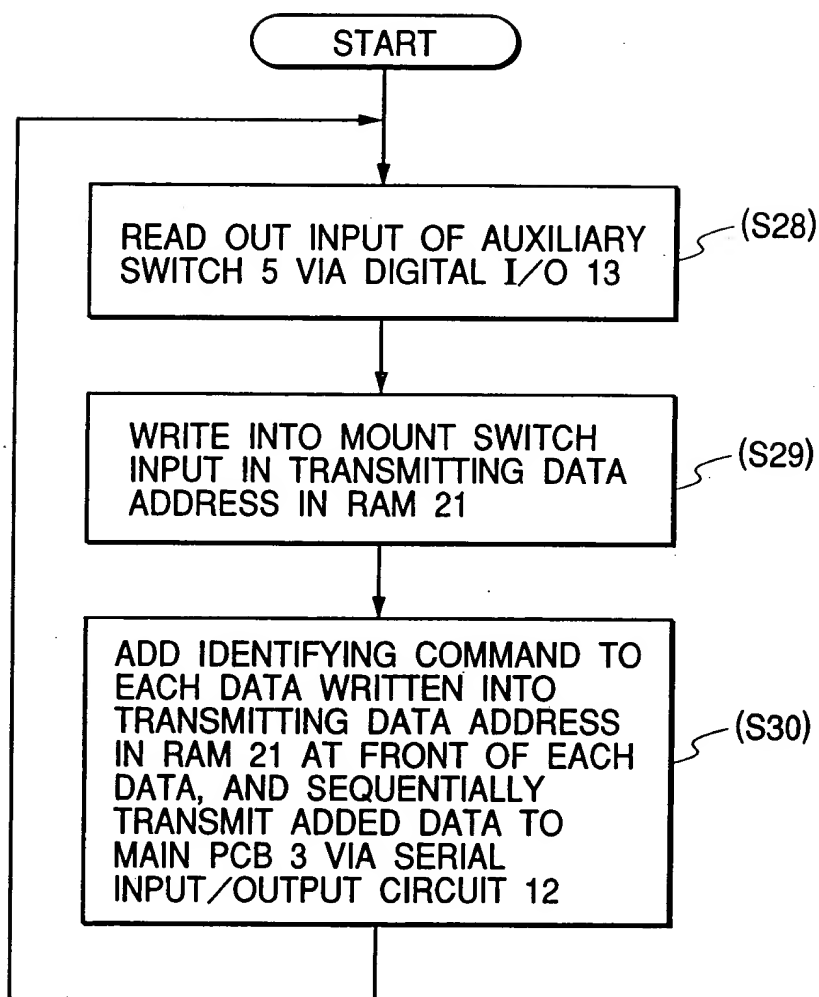


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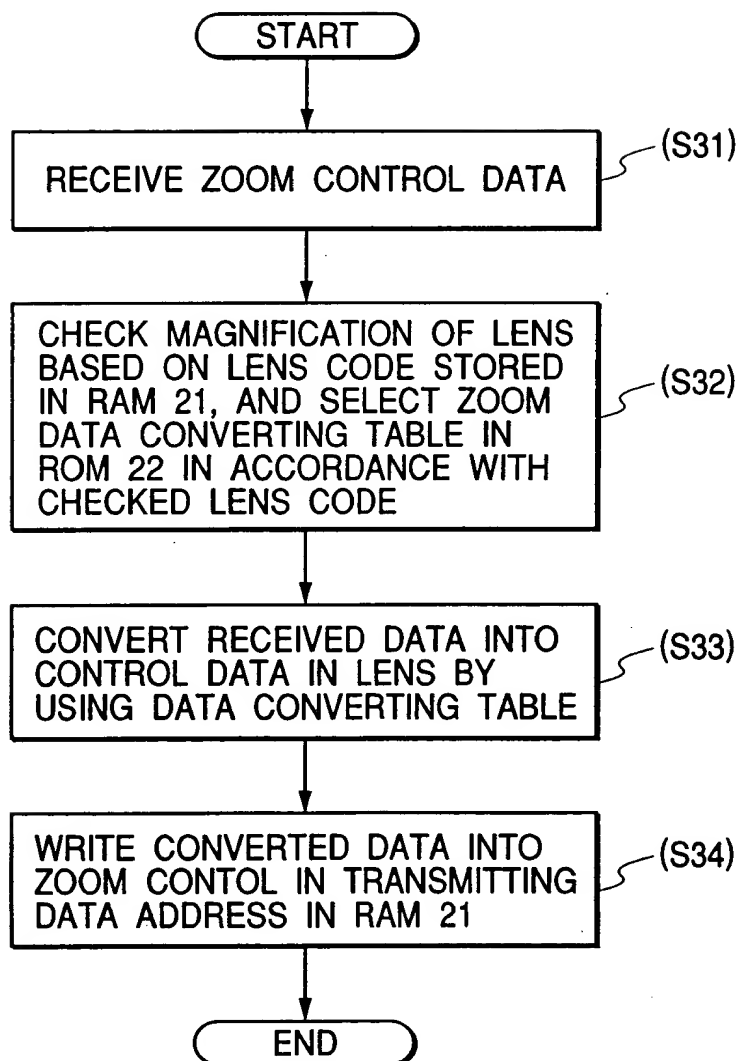
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

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FIG. 14

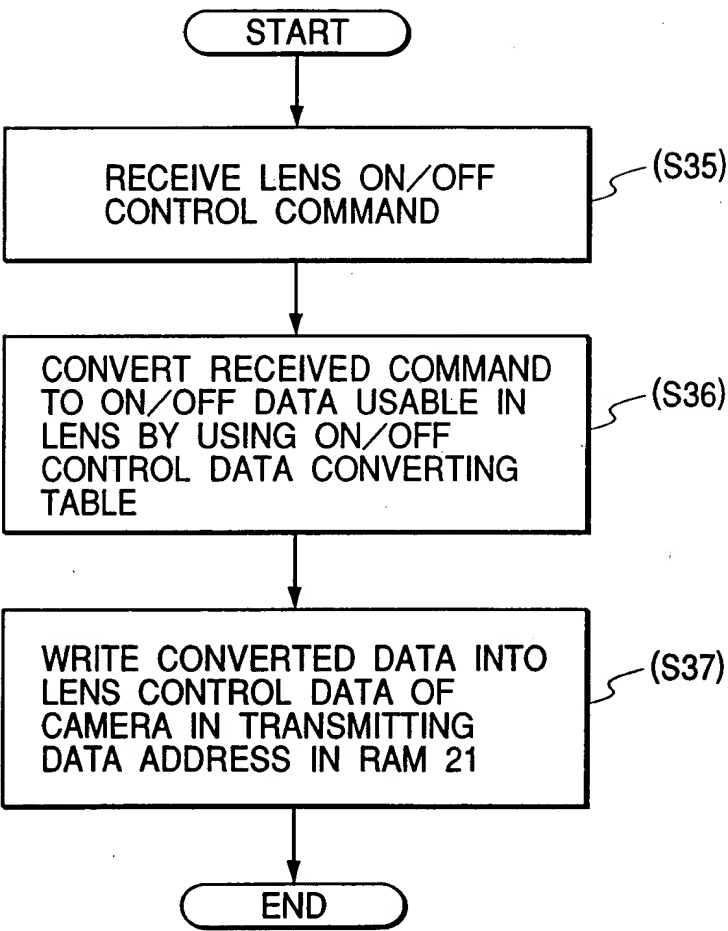


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FIG. 15

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FIG. 16



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FIG. 17

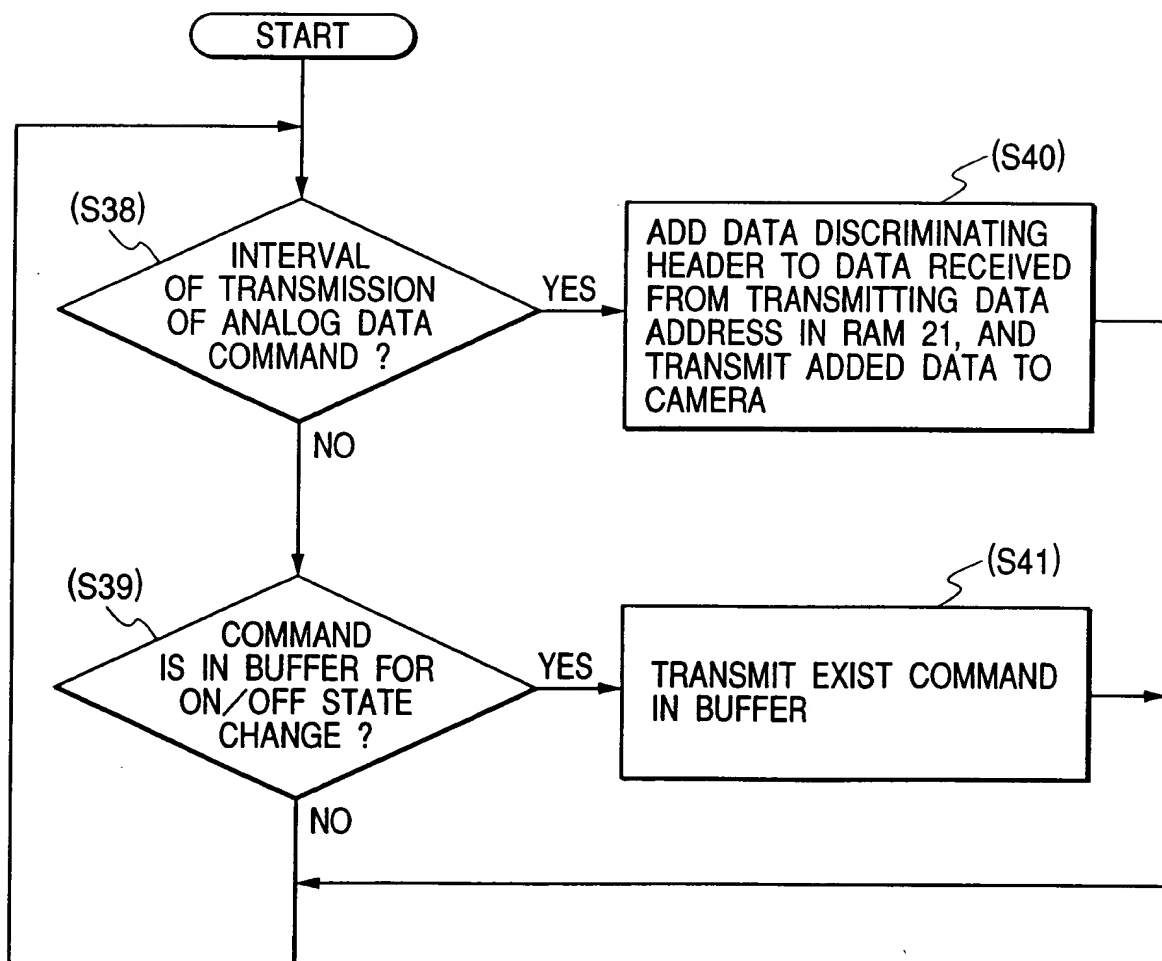


FIG. 21

KINDS OF COMMAND	ACTUAL COMMAND DATA	bit CONVERSION DATA	MASK DATA
TALLY ON	0x80	10000000 (BINARY DATA)	10000000 (BINARY DATA)
TALLY OFF	0x81	00000000 (BINARY DATA)	10000000 (BINARY DATA)
EXT 2X ON	0x82	01000000 (BINARY DATA)	01000000 (BINARY DATA)
EXT 2X OFF	0x83	00000000 (BINARY DATA)	01000000 (BINARY DATA)
IRIS AUTO ON	0x84	00100000 (BINARY DATA)	00100000 (BINARY DATA)
IRIS AUTO OFF	0x85	00000000 (BINARY DATA)	00100000 (BINARY DATA)
PP ON	0x86	00010000 (BINARY DATA)	00010000 (BINARY DATA)
PP OFF	0x87	00000000 (BINARY DATA)	00010000 (BINARY DATA)
HEATER ON	0x88	00001000 (BINARY DATA)	00001000 (BINARY DATA)
HEATER OFF	0x89	00000000 (BINARY DATA)	00001000 (BINARY DATA)
16:9 MODE ON	0x8a	00000100 (BINARY DATA)	00000100 (BINARY DATA)
16:9 MODE OFF	0x8b	00000000 (BINARY DATA)	00000100 (BINARY DATA)
FOCUS REMOTE MODE ON	0x8c	00000010 (BINARY DATA)	00000010 (BINARY DATA)
FOCUS REMOTE MODE OFF	0x8d	00000000 (BINARY DATA)	00000010 (BINARY DATA)
ZOOM REMOTE MODE ON	0x8e	00000001 (BINARY DATA)	00000001 (BINARY DATA)
ZOOM LOCAL MODE OFF	0x8f	00000000 (BINARY DATA)	00000001 (BINARY DATA)

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FIG. 22B

TRANSMISSION COMMAND FROM LENS TO CAMERA
IRIS F NUMBER FOLLOW COMMAND
ZOOM, FOCAL LENGTH FOLLOW COMMAND
FOCUS, OBJECT DISTANCE FOLLOW COMMAND
LENS CONTROL ON/OFF ANSWER COMMAND

FIG. 23B

COMMUNICATION FROM CAMERA INTERFACE BOARD 9 TO MAIN PCB 3
IRIS CONTROL COMMAND
ZOOM CONTROL COMMAND
FOCUS CONTROL COMMAND
LENS ON/OFF CONTROL COMMAND
MOUNT SWITCH INPUT DATA COMMAND

FIG. 22A

COMMUNICATION COMMAND FROM CAMERA TO LENS
IRIS F NUMBER CONTROL COMMAND
ZOOM FOCAL LENGTH CONTROL COMMAND
FOCUS OBJECT DISTANCE CONTROL COMMAND
LENS ON/OFF CONTROL COMMAND

FIG. 23A

COMMUNICATION FROM MAIN PCB 3 TO CAMERA INTERFACE BOARD 9
LENS CODE COMMAND
IRIS FOLLOW DATA COMMAND
ZOOM FOLLOW DATA COMMAND
FOCUS FOLLOW DATA COMMAND
DIGITAL I/O OUTPUT (ANSWER TO CAMERA)
INDICATING DATA

FIG. 24B

DATA ADDRESS IN RAM 21 FOR TRANSMITTING TO CAMERA
IRIS NUMBER FOLLOW
ZOOM, FOCUS DISTANCE FOLLOW
FOCUS, DISTANCE TO OBJECT FOLLOW
DIGITAL I/O OUTPUT (ANSWER TO CAMERA)

FIG. 24A

DATA ADDRESS IN RAM 21 FOR TRANSMITTING TO MAIN PCB 3
IRIS CONTROL
ZOOM CONTROL
FOCUS CONTROL
DIGITAL I/O INPUT (LENS CONTROL SIGNAL FROM CAMERA)
MOUNT SWITCH INPUT